This invention is in the field of optical device and electronic image storage device. This invention have observed that the doctor does surgical operate to patient and to record it.

These theory and property are follows: By reason of a lens forms an image by using the device of video camera, then the image is transmitted by cable to the video cassette recorder and to display on the monitor for viewing and recording it.

If the mistakes or the wrong operate by doctor (or operator) was happen, the observer (chief doctor or patient's relatives) only pressing the switch of another electric circuit with sounder down, the electric circuit is closed, can inform the operator by the lamp and the sounder, and to correct it immediately.

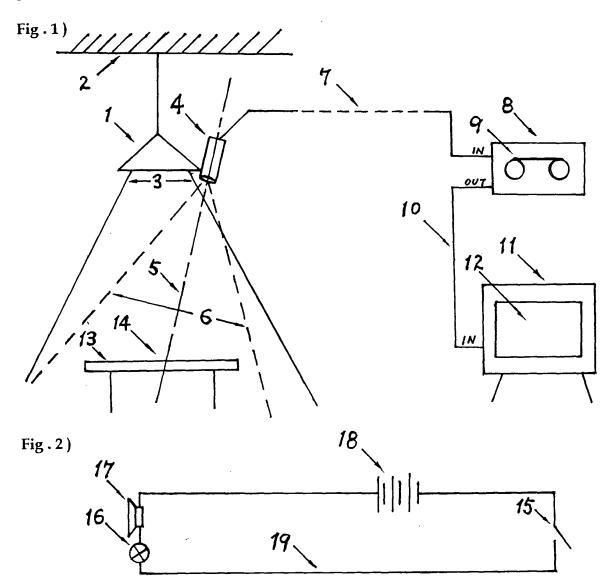
So it can be avoid that the accident of surgical operation of doctor could be happen.

[FIGURE]:

- Fig. 1) The electronic image storage device consists of a lens of video camera , video cassette recorder and television through a cable .
- Fig. 2) The electric circuit contained by the switch, red lamp, sounder, cell, and the wire.

[FIGURE]:

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- 1) Operate lamp.
- 2) Ceiling.
- 3) The region of lamp light.
- 4) The lens of video camera.
- 5) Axis of lens.
- 6) The region of viewing by lens.
- 7) Cable.
- 8) Video cassette recorder.
- 9) Video cassette tape.
- 10) Cable .

- 11) Television.
- 12) Screen .
- 13) Operate table.
- 14) Object.
- 15) Switch .
- 16) Red lamp.
- 17) Sounder.
- 18) Storage cell.
- 19) Wire .

DESCRIPTION

1) TITLE OF THE INVENTION:

The title of this invention is: " The way to avoid the accident of surgical operation of doctor and it's observable appliance."

2) THE ART FIELD:

This invention is in the field of optical device with electronic image storage device. By reason of the lens forms an image. The electronic image storage device is consists of a lens of video camera, video cassette recorder, and monitor. This invention is a new kind of useful of electronic image storage device.

3) BACKGROUND OF THE INVENTION:

The prior art of electronic observable device is widely used in the human life and industry production. In the factory, the supervisor can sit in the office to observed and to operate the process of industry production. In the bank, the manager can to see the cashier's performance by use electronic observable device and accident as well. This instrument can also used by the guarder of building to record person entrance time, If there is an accident, people could consult the tape, which is recorded by electronic observable device, to check up when, where and who is in this place, therefore to look out who is caused of accident.

In all, it concludes that the electronic observable device, which is named "The electronic image storage device ", consists of A lens of video camera, Video cassette recorder, and Monitor through a cable. They can connect a few of different products for different use. Therefore, We can making various related electronic image storage device according to specific purpose. This invention is a specifically designed for new kind of useful of electronic image storage device.

4) THE INTENTION OF THIS INVENTION:

When the doctor makes surgical operation. If his judgment is correct and the operation will be done according to the operational plan, it is a perfect operation. In other words, if the pain can relieve or the aggravation can be controlled, it proved that it is a successful operation.

But in fact, sometimes there might have mistakes during the operation. For example, Because of doctor carelessness, they operate the wrong body part or mistakenly cut the other normal body part. According to the report of the news paper, the accident of surgical operation hurt about 1 Million people and lead to hundred thousands people losing their lives per year only in the U.S. So the importance of this invention is that it could reduce these kinds of accidents happen, that is also the intention of this invention. The intention of this invention is to looking for a way to protect patient from accident injury in surgical operation and to help doctor to avoid the mistakes in the surgical operation by observation to surgical operation.

These theory and property are following: By reason of use the electronic image storage device. Place the lens of video camera to the above operate table nearer by operate lamp, then connect through a cable to the video cassette recorder, then to the monitor. Through electronic image storage device we can viewing and recording the all process of surgical operation, which the doctor does the operation to patient, and we can to know which part of body had been cut in the doctor's surgical operation.

Although, sometime for purpose of medical studies and research there are make a pictures of surgical operation. But this is a difference idea and intention with this invention.

The specific property of this invention are :

- 1) The intention of this invention is to looking for the way to avoid the accident happen of surgical operation of doctor.
- 2) The intention of this invention is to protect patient from accident injury in the surgical operation of doctor.
- 3) This invention is a new specific device to observe the process of surgical operation. This invention is used by other chief doctor or patient's relative to viewing and recording the process of surgical operation.

This invention will be beneficial to the following principal aspect:

- 1) If the doctor and operator mistakenly operate the wrong part of body in the surgical operation. This invention could be used by observer (either chief doctor or patient 's relatives) to call the operator to report the mistake and to correct it immediately. Therefore it could avoid the accident happen.
- 2) After operation, the patients could consult records to know which inward organs of his body has been cut. Therefore, they

could better understand their recovery after operation. In that case, they will feel very inward peace.

- 3) Through observation it could promote doctor to do operation more responsible and more best. It also could prevent the doctor cheat patient after the failure of operation.
- 4) If there is any accident happen. People could consult the records, therefore, it is a convenient way to judge the causes of the accident.
- 5) Because everything is recorded during the operation, so the doctor must be very careful in surgical operation, therefore, the accident will be greatly decreased. On the other hand, the funds, used to claim compensation for failure of operation, will be greatly decreased also. In that case, the cost of responsible accident 's insurance and operation expenses for the doctor could be greatly decreased. Finally, it will save the public insurance expenses of operation and health plan.

In all , the patient could increase the trust towards the hospital equipment , doctor 's art and safety in operation .

5) SUMMARY OF THE INVENTION:

This invention is in the field of optical device and electronic image storage device. This invention have observed that the doctor does surgical operate to patient and to record it. These theory and property are follow: By reason of the lens forms an image by using the device of video camera, then the image is transmitted by cable to the video cassette recorder and to display on the monitor for viewing and to recording it.

Place a lens of video camera to the above operate table nearer by operate lamp, By reason of the lens forms an image, focus the lens of video camera and adjust the axis of lens toward to the object, that the object (which is placed on the operate table) can be viewing very clearly. Then the image can be transmitted by cable (or by wireless) to the video cassette recorder which can to receipt of it and to record of it. Then the image can be transmitted to the monitor to display on the screen of the monitor also.

There are open the all device when the surgical operation is beginning. We can viewing and recording the process of surgical operation by doctor at same time.

If the mistakes or the wrong operate by doctor was happen, the observer (chief doctor or patient 's relatives) only pressing the another electric circuit switch down, the electric circuit is closed,

can inform to the operator by the lamp and the sounder and to correct it immediately .

So it can be avoid that the accident of surgical operation of doctor could be happen .

6) BRIEF DESCRIPTION ON THE DRAWINGS: (4 drawing sheets)

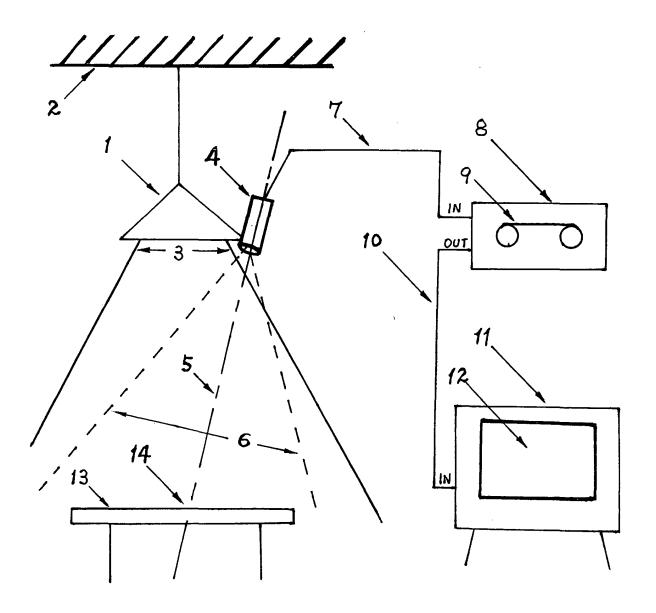
- Fig. 1: The electronic image storage device consists of the lens of video camera, video cassette recorder and television through a cable.
- Fig. 2: The electronic image storage device consists of the lens of video camera, computer with CD-Recorder (such as CD-RW, CD-Recordable, CD-Rewritable) and monitor through a cable.

Fig. 3: The electronic image storage device consists of the lens of video camera with infrared Light emitted device, and the television with video cassette recorder through a cable (or transmitter by wireless).

Fig. 4: The electric circuit contained by the switch, red lamp, sounder, cell, and the wire.

6) FIGURE 1:

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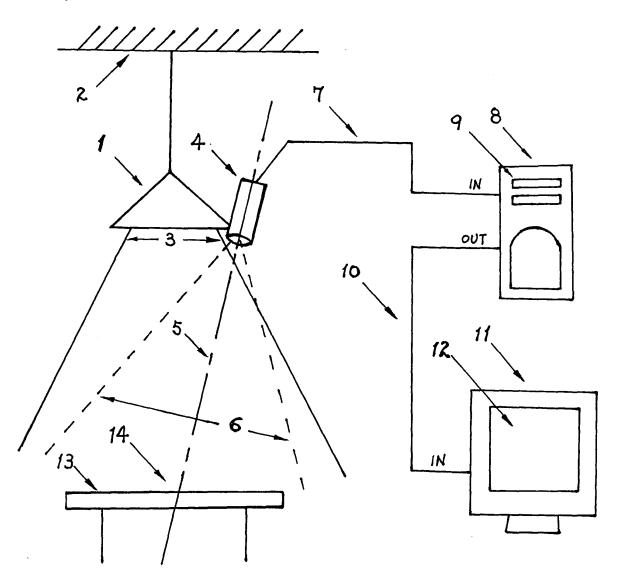


- 1) Operate lamp.
- 2) Ceiling.
- 3) The region of lamp light.
- 4) The lens of video camera.
- 5) Axis of lens.
- 6) The region of viewing by lens.
- 7) Cable.

- 8) Video cassette recorder.
- 9) Video cassette tape.
- 10) Cable .
- 11) Television.
- 12) Screen .
- 13) Operate table.
- 14) Object.

6) FIGURE 2:

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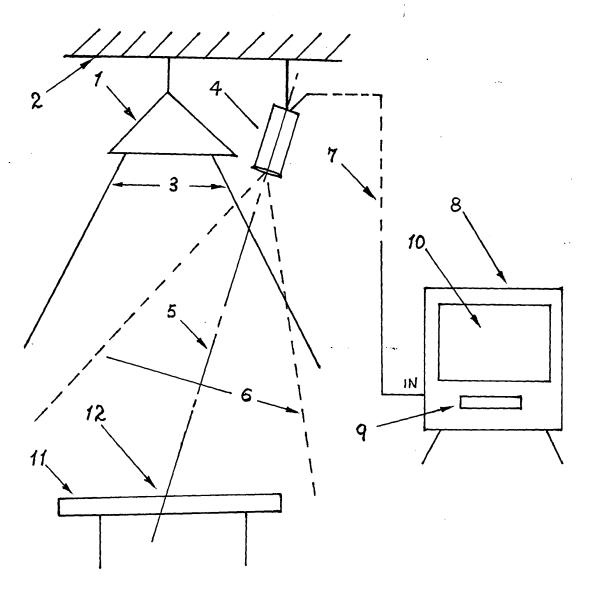


- 1) Operate lamp.
- 2) Ceiling.
- 3) The region of lamp light.
- 4) The lens of video camera.
- 5) Axis of lens.
- 6) The region of viewing by lens.
- 7) Cable .

- 8) CD -- Recorder of computer.
- 9) CD -- Disk .
- 10) Cable .
- 11) Monitor.
- 12) Screen .
- 13) Operate table.
- 14) Object.

6) FIGURE 3:

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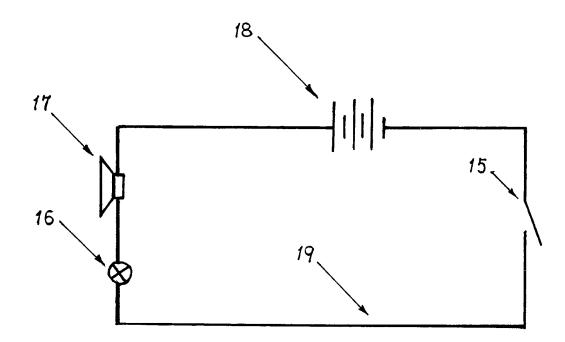


- 1) Operate lamp.
- 2) Ceiling.
- 3) The region of lamp light.4) The lens of video camera.
- 5) Axis of lens.
- 6) The region of viewing by lens.
- 7) Wireless by transmitter.

- 8) Television with Video cassette recorder.
- 9) Video cassette tape.
- 10) Screen .
- 11) Operate table .12) Object .

6) FIGURE 4:

Sheet 5 of 5



- 15) Switch .
- 16) Red lamp.
- 17) Sounder.

- 18) Storage cell.
- 19) Wire.

7) DETAILED DESCRIPTION OF THE INVENTION:

Turning generally to Fig. 1. The electronic image storage device consists of a lens of video camera, video cassette recorder and television through a cable.

To use this device, first placed the lens of video camera (4) to the above operate table (13) nearer by operate lamp (1) [or at the ceiling (2)]. Then focus the lens (4) and adjust the axis of lens (5) toward to the object (14), which is on the operate table (13), And the object (14) can be viewing very clearly by the lens of video camera (4).

The video cassette recorder (8) and the television (11) could be placed to the another observable waiting room. There are the chief doctor or patient 's relative can viewing and recording it.

The cable (7) is connect with the lens of video camera (4) and the in terminal of the video cassette recorder (8). Then the

cable (10) is connect with the out terminal of the video cassette recorder (8) and the in terminal of the television (11) too .

But make sure the power to the all device is turned off. And the power supply is unplugged from the power source when connecting the device of the lens of video camera.

When the surgical operation by doctor is beginning. There are only push the switch of all device to turned on.

By reason of the lens forms an image by using the lens of video camera (4). The object (14), which is the part of surgical operation on the operate table (13), forms an image by lens (4), and transmits this image through cable (7) to the video cassette recorder (8) to recording it. Then the image could be transmitted by cable (10) to the television (11) to display on the screen (12).

The observer can be viewing and recording the all process of this surgical operation .

Then placed the red lamp (16) [see Fig. 4] and the sounder (17) to the operate room nearby the operate table (13). And placed the switch (15) in the observable waiting room nearby the television (11). The wire (19) is connect with the switch (15), red lamp (16), sounder (17) and the storage bell (18).

If the mistakes or the wrong operate by doctor was happen, the observer (chief doctor or patient 's relatives) only pressing the switch (15) down to turned on, the electric circuit is closed, it can inform the doctor and operator by the red lamp (16) and the sounder (17), and to correct it immediately.

So it can be avoid that the accident of surgical operation of doctor could be happen .